Instructions for Running the Code

Generative AI-Powered Resume Analyzer: How to Run

1. Environment Setup1. Make sure you have Python 3.9+ installed.
2. Install required libraries:

- pip install PyPDF2 pdfplumber pytesseract spacy openai pandas openpyxl pydrive transformers

3. Install Tesseract (for OCR) and spaCy model

For Linux/Ubuntu:

- apt-get install -y tesseract-ocr

For spaCy language model:

- python -m spacy download en_core_web_sm

API Key Configuration

1. Obtain an OpenAI API key from the [OpenAIPlatform](https://platform.openai.com).
2. In the code, locate the line:

```python
openai.api_key = "YOUR_NEW_SECURE_API_KEY"
```

Replace "YOUR_NEW_SECURE_API_KEY" with your actual API key.

Resume Folder Setup

1. Ensure you have your PDF resumes in a folder accessible to the script.
2. In the code, look for a variable like:
   a) Python: resume_folder = "/path/to/Resume/"
3. Update it to point to your folder containing the .pdf files.

Running the Script

1. Option A: Google Colab

- Upload the .ipynb notebook to Colab.
- Mount your Google Drive if needed.
- Run the cells sequentially.

2. Option B: Local Python Execution

    - Download the .py file.
    - Open a terminal in the same directory.
    - Run:
        - python Resume_Analyzer.py
    - The output Excel file will be generated in the location you specified in the code.

Output File

1. After successful execution, look for an Excel file (e.g., Final_Resume_Analysis.xlsx).
2. This file will contain the extracted fields, scores, and any additional AI-driven insights.

Troubleshooting

a) If you see “Rate Limit” or “Quota Exceeded” errors from OpenAI, wait or upgrade your plan.
b) If Tesseract is not found, confirm it’s installed and in your PATH.
c) For any environment-specific issues, review the code to ensure the paths and installations are correct.